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DATE MAILED: 03/25/2003 ·

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,472	11/01/2001	Robert H. Havemann	TI-27506	1913
23494	7590 03/25/2003			
TEXAS INSTRUMENTS INCORPORATED			EXAMINER	
	P O BOX 655474, M/S 3999 DALLAS, TX 75265		WOJCIECHOWICZ, EDWARD JOSEPH	
			ART UNIT	PAPER NUMBER
			2815	-

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

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Application No. 10/001,472

Applicant(s)

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Havemann

Examiner

Edward Wojciechowicz

Art Unit 2815

	The MAILING DATE of this communication appears of	on the cover sh	eet with	the correspondence address		
	for Reply					
THE N	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.					
	ions of time may be available under the provisions of 37 CFR 1.136 (a). In r g date of this communication.	no event, however, n	nay a repty b	e timely filed after SIX (8) MONTHS from the		
- If the p - If NO p - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply are to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the platent term adjustment. See 37 CFR 1.704(b).	ind will expire SIX (6) ne application to beco	MONTHS from ABANDO	om the mailing date of this communication. INED (35 U.S.C. § 133).		
Status						
1) 💢	Responsive to communication(s) filed on <u>Dec 13, 20</u>	2002		<u> </u>		
2a) 💢	This action is FINAL . 2b) ☐ This action	ion is non-final	•			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposi	tion of Claims					
4) 💢	Claim(s) <u>1-25</u>			is/are pending in the application.		
4	a) Of the above, claim(s) 11-20			is/are withdrawn from consideration.		
5) 🗆	Claim(s)			is/are allowed.		
6) 💢	Claim(s) 1-10 and 21-25			is/are rejected.		
7) 🗆	Claim(s)					
8) 🗆	Claims					
Applica	ition Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)□	The drawing(s) filed on is/are	a) 🗆 accepte	d or b)[\square objected to by the Examiner.		
	Applicant may not request that any objection to the di	rawing(s) be he	ld in abey	vance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is	: a) □ a	pproved b) \square disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.						
12)	The oath or declaration is objected to by the Examin	iner.		•		
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) □ All b) □ Some* c) □ None of:						
	1. \square Certified copies of the priority documents have	e been receive	d.			
2. Certified copies of the priority documents have been received in Application No.						
	3. Copies of the certified copies of the priority do application from the International Burea	au (PCT Rule 1	7.2(a)).			
	ee the attached detailed Office action for a list of the					
	Acknowledgement is made of a claim for domestic					
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
		priority under	35 0.5.0	2. 99 120 and/or 121.		
Attachm	ent(s) otice of References Cited (PTO-892)	4) Interview Su	mmary (PTO	-413) Paper No(s)		
_	otice of Draftsperson's Patent Drawing Review (PTO-948)	_	-	Application (PTO-152)		
_	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 2. Claims 1-3 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Oda; of record, for the reasons given in the previous action, hereby incorporated by reference.

 Applicant's arguments concerning the merits of the Oda reference have been considered, however, are not deemed persuasive. Looking, for example, at Fig. 5 of Oda, one sees a conductor layer (18) disposed outwardly from a semiconductor device, and operable to provide electrical connection to the device, and a porous dielectric layer (10) which is disposed inwardly from the contact layer and outwardly from the semiconductor device, as claimed. Clearly, porous layer (10) lies inwardly, that is, between the contact layer and the device. Notice also that a part of porous layer (10) actually lies beneath the edge of contact layer (18).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4 and 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oda as applied to claim above, and further in view of Tseng, both of record, for the reasons given in the previous action, hereby incorporated by reference. As stated above, Oda does show the basic structure of the claimed invention with a porous layer formed inwardly of a contact layer. As taught by Tseng, the use of such porous layers is also known to be used in FET devices, as claimed.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 21-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 21, the recitation of a "pre-metal dielectric" layer is not clearly defined. Is

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the structure of this pre-metal dielectric layer any different from that of the porous dielectric layer of the other claims?

6. Insofar as they are understood, claims 21-25 are also rejected under 35 U.S.C. 102(e) as being anticipated by Oda for the same reasons given in the rejection of claim 1 above.

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz, whose telephone number is (703) 308-4898, or to SPE Eddie Lee whose number is 703-308-1690

EDWARD WOJCIECHOWICZ PRIMARY EXAMINER GROUP 2500

Edward Wojciechowicz:ew

March 23, 2003